

## FY 5630

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/763,824Source: 90/763,824Date Processed by STIC: 6/6/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
  - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/763,824
ATTN: NEW RULES CASE	s: please disregard english "alpha" headers, which were inserted by  pto software
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)  Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence fules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section is required when <213> response is Unknown or is Artificial Sequence
IIUse of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  (See of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See. 1.823 of Sequence Rules)
12PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



DATE: 06/06/2002

PCT09

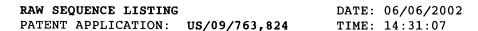
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PATENT APPLICATION: US/09/763,824
                                                                                                                                                    TIME: 14:31:07
                                               Input Set : A:\seq listing filed.txt
                                               Output Set: N:\CRF3\06062002\I763824.raw
         4 <110> APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
         5
                             Government of the United Kingdom of Great Britain and Northern Ireland
         6
                             Tisi, Laurence C
                    Murray, James AH
         8
                             Lowe, Christopher R
                                                                                                                                                                           Does Not Comply
                             White, Peter J
         9
                                                                                                                                                                 Corrected Diskette Needed
      10
                            Murphy, Melanie J
      11
                             Price, Rachel L
                             Squirrell, David
      15 <120> TITLE OF INVENTION: Novel enzyme
      17 <130> FILE REFERENCE: IPD/P1206/WOD
19 <140> CURRENT APPLICATION NUMBER: US/09/763,824
    20 <141> CURRENT FILING DATE: 2002-04-29
      22 <150> PRIOR APPLICATION NUMBER: GB 9823468.5
      23 <151> PRIOR FILING DATE: 1998-10-28
      25 <160> NUMBER OF SEQ ID NOS: 35
     27 <170> SOFTWARE: Face...
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 23
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence:
36 Oligonucleotide insufficient explanation—give source of genetic material
39 <400> SEQUENCE: 1 (see item //

Sequence:

(plotal error

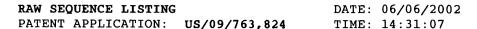
(plot
      27 <170> SOFTWARE: PatentIn Ver. 2.1
      46 <213> ORGANISM: Artificial Sequence
      48 <220> FEATURE:
      49 <223> OTHER INFORMATION: Description of Artificial Sequence:
                        Oligonucleotide
      52 <400> SEQUENCE: 2
      53 cggcggcggg gagctcaccg gcg
                                                                                                                                                                                     23
      56 <210> SEQ ID NO: 3
      57 <211> LENGTH: 51
      58 <212> TYPE: DNA
      59 <213> ORGANISM: Artificial Sequence
      61 <220> FEATURE:
      62 <223> OTHER INFORMATION: Description of Artificial Sequence:
      63
                           Oligonucleotide
      65 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING



Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

66 cgaacacttc ttcatcgttg accgccttaa gtctttaatt aaatacaaag g	51
69 <210> SEQ ID NO: 4	
70 <211> LENGTH: 51	
71 <212> TYPE: DNA	
72 <213> ORGANISM: Artificial Sequence	
74 <220> FEATURE:	
75 <223> OTHER INFORMATION: Description of Artificial Sequence:	
76 Oligonucleotide	
78 <400> SEQUENCE: 4	
79 cctttgtatt taattaaaga cttaaggcgg tcaactatga agaagtgttc g	51
82 <210> SEQ ID NO: 5	
83 <211> LENGTH: 32	
84 <212> TYPE: DNA	
85 <213> ORGANISM: Artificial Sequence	
87 <220> FEATURE:	
88 <223> OTHER INFORMATION: Description of Artificial Sequence:	
89 Oligonucleotide	
91 <400> SEQUENCE: 5	
92 gaaaggcccg gcaccagcct atcctctaga gg	32
95 <210> SEQ ID NO: 6	
96 <211> LENGTH: 32	
97 <212> TYPE: DNA	
98 <213> ORGANISM: Artificial Sequence	
100 <220> FEATURE:	
101 <223> OTHER INFORMATION: Description of Artificial Sequence:	
102 Oligonucleotide	
104 <400> SEQUENCE: 6	
105 cctctagcgg ataggctggt gccgggcctt tc	32
108 <210> SEQ ID NO: 7	
109 <211> LENGTH: 36	
110 <212> TYPE: DNA	
111 <213> ORGANISM: Artificial Sequence	
113 <220> FEATURE:	
114 <223> OTHER INFORMATION: Description of Artificial Sequence:	
115 Oligonucleotide	
117 <400> SEQUENCE: 7	
118 ccataaattt accgaattcg tcgacttcga tcgagg	36
121 <210> SEQ ID NO: 8	30
122 <211> LENGTH: 18	
123 <212> TYPE: DNA	
124 <213> ORGANISM: Artificial Sequence	
126 <220> FEATURE:	
127 <223> OTHER INFORMATION: Description of Artificial Sequence:	
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130 <400> SEQUENCE: 8	
131 gtgtggaatt gtgagcgg	18
134 <210> SEQ ID NO: 9	10
135 <211> LENGTH: 21	
136 <212> TYPE: DNA	
av valar illu. Ditti	



Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\1763824.raw

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137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence:
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143 <400> SEQUENCE: 9
144 gagatacgcc gcggttcctg g
                                                                        21
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 21
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence:
154 Oligenucleotide
156 <400> SEQUENCE: 10
157 ccaggaaccg cggcgtatct c
                                                                        21
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 30
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence:
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169 <400> SEQUENCE: 11
170 ccctattttc attcctggcc aaaagcactc
                                                                        .30
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence:
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182 <400> SEQUENCE: 12
183 gagtgctttt ggccaggaat gaaaataggg
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186 <210> SEQ ID NO: 13
187 <211> LENGTH: 27
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence:
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195 <400> SEQUENCE: 13
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200 <211> LENGTH: 27
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence:
206
          Oligonucleotide
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RAW SEQUENCE LISTING DATE: 06/06/2002 PATENT APPLICATION: US/09/763,824 TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

208	<400> SEQUENCE: 14	
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	<211> LENGTH: 30	
	<212> TYPE: DNA	
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	<pre>&lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:</pre>	
219		
	<400> SEQUENCE: 15	
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	<210> SEQ ID NO: 16	
	<211> LENGTH: 22	
	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<pre>&lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:</pre>	
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	<210> SEQ ID NO: 17	
	<211> LENGTH: 22	
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247	<400> SEQUENCE: 17	
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	<210> SEQ ID NO: 18	
252	<211> LENGTH: 22	
253	<212> TYPE: DNA	
254	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
257	<223> OTHER INFORMATION: Description of Artificial Sequence:	
258	Oligonucleotide	
260	<400> SEQUENCE: 18	
261	ggctacatac tggagacata gc	22
264	<210> SEQ ID NO: 19	
265	<211> LENGTH: 22	
266	<212> TYPE: DNA	
267	<213> ORGANISM: Artificial Sequence	
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270	<223> OTHER INFORMATION: Description of Artificial Sequence:	
271	Oligonucleotide	
273	<400> SEQUENCE: 19	
274	gctatgtctc cagtatgtag cc	22
	<210> SEQ ID NO: 20	
278	<211> LENGTH: 21	



**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/09/763,824**DATE: 06/06/2002

TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

279 <212> TYPE: DNA 280 <213> ORGANISM: Artificial Sequence 282 <220> FEATURE: 283 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide 286 <400> SEQUENCE: 20 287 gcagttgcgc ccgtgaacga c 21 290 <210> SEQ ID NO: 21 291 <211> LENGTH: 21 292 <212> TYPE: DNA 293 <213> ORGANISM: Artificial Sequence 295 <220> FEATURE: 296 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide ) 297 299 <400> SEQUENCE: 21 300 gtcgttcacg ggcgcaactg c 21 303 <210> SEQ ID NO: 22 304 <211> LENGTH: 29 305 <212> TYPE: DNA 306 <213> ORGANISM: Artificial Sequence 308 <220> FEATURE: 309 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonycleotide 312 <400> SEQUENCE: 22 313 caaatcattc cgggtactgc gattttaag 29 316 <210> SEQ ID NO: 23 317 <211> LENGTH: 29 318 <212> TYPE: DNA 319 <213> ORGANISM: Artificial Sequence 321 <220> FEATURE: 322 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide 325 <400> SEQUENCE: 23 326 cttaaaatcg cagtacccgg aatgatttg 29 329 <210> SEQ ID NO: 24 330 <211> LENGTH: 27 331 <212> TYPE: DNA 332 <213> ORGANISM: Artificial Sequence 334 <220> FEATURE: 335 <223> OTHER INFORMATION: Description of Artificial Sequence: Please correct this ever in subsequent 27 sequencer. (Óligonucleotide 338 <400> SEQUENCE: 24 339 ccgcatagaa ctctctgcgt cagattc 342 <210> SEQ ID NO: 25 343 <211> LENGTH: 27 344 <212> TYPE: DNA 345 <213> ORGANISM: Artificial Sequence 347 <220> FEATURE:

348 <223> OTHER INFORMATION: Description of Artificial Sequence:

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/763,824

DATE: 06/06/2002 TIME: 14:31:08

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\1763824.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; N Pos. 15,16,17 Seq#:29; N Pos. 13,14,15